



# Investigators – Hands On Training Spirometry

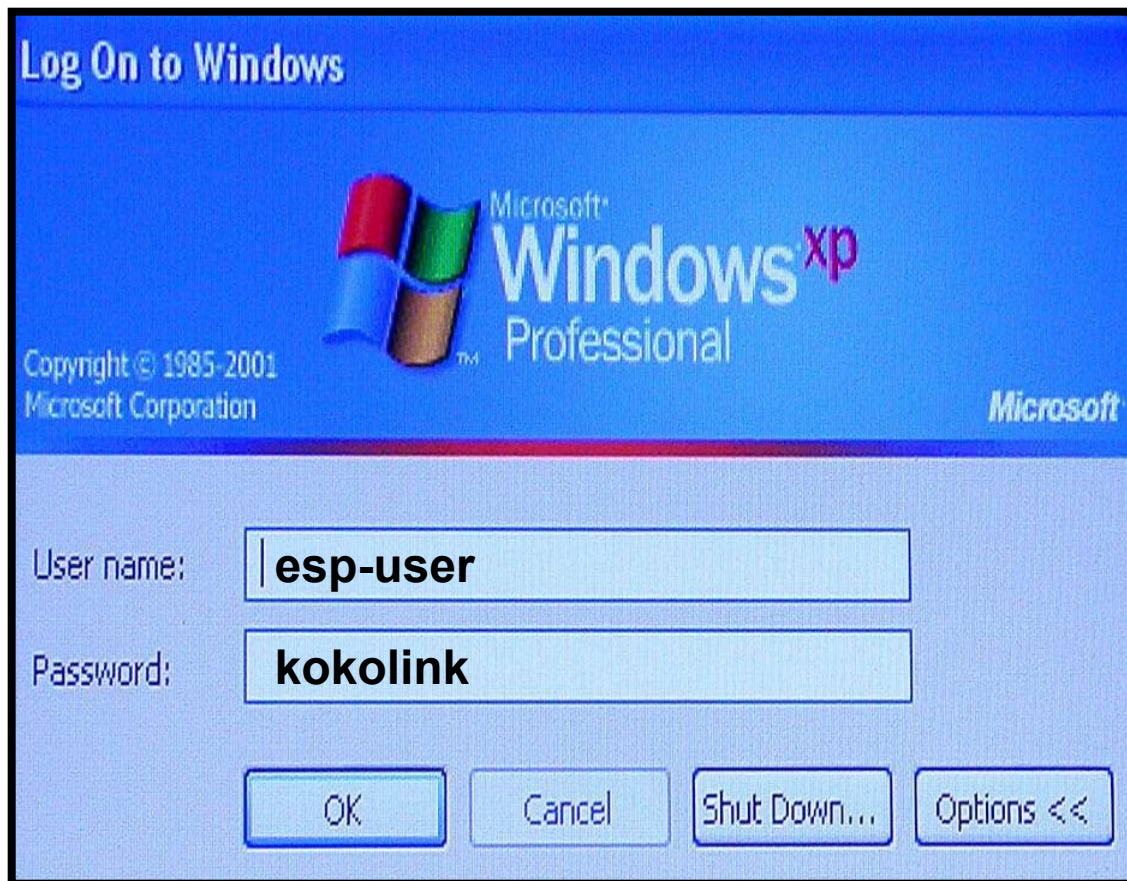




# Agenda

INSPIRING RESPIRATORY HEALTH

- Consistent method/coaching
- Acceptable tests vs poor tests
- Protocol specifics
- Calibration and Linearity
- Forced Vital Capacity (and FEV1)
- Reports
- eQueries
- CTMT



- User name: esp-user
- Password: kokolink
- Click the “**OK**” button
- The system will advance to synchronization screen
- **NOTE:** *please use this same login if the screen saver is activated*



# Synchronization Screen

INSPIRING RESPIRATORY HEALTH






Please Enter Your Login Information.

Study ID:

Login ID:

Password:

The login screen has a grey background. At the top, it says "Please Enter Your Login Information." in blue. Below this are three input fields: "Study ID:" with the value "Control", "Login ID:" with the value "tech1", and "Password:" with the value "tech1". At the bottom, there are three buttons: a "LOG ON" button with a hand icon, a "Clear Reset" button with a circular arrow icon, and a "CHANGE PASSWORD" button with a padlock icon.

When Synchronization is complete the eSP login screen will appear.

Study ID: Control

Login: tech1

Password: tech1

Click on the “**Log On**” button





# Calibration and Linearity

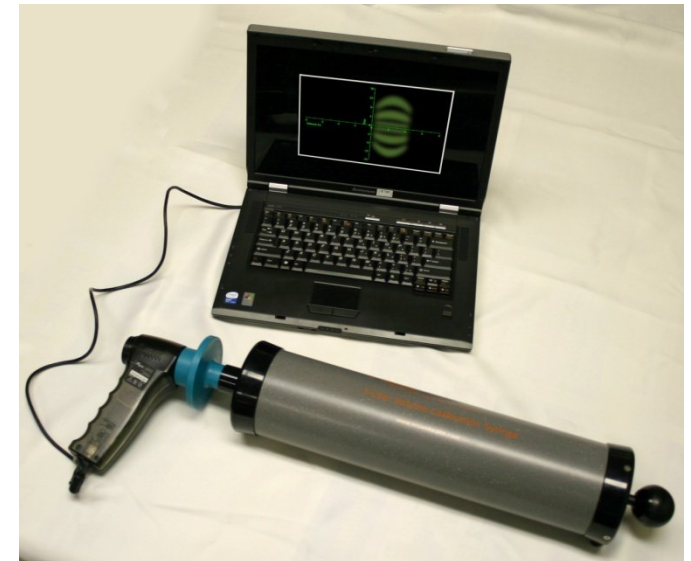
INSPIRING RESPIRATORY HEALTH

## Calibration

- Ensures accuracy
- Three different flow rates are required: slow; medium; and fast
- Reports generated for each successful calibration must be printed and filed.
- Calibration must be performed on each testing day. Successful calibration is required before testing is permitted.

## Linearity

- An additional volume calibration check to assess accuracy across all required flow rates
- Performed weekly, after a calibration.



Hardware connects via USB to laptop.

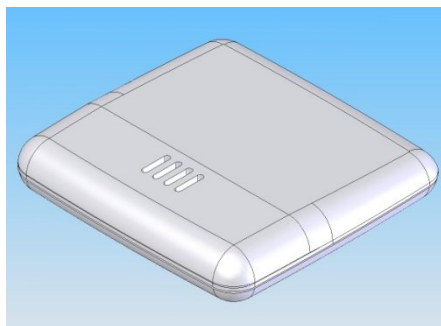


Software automatically captures environmental values prior to calibration.

- ambient temperature ( $^{\circ}\text{C}$ ),
- barometric pressure (mmHg)
- relative humidity (%)

Temp. (Celsius):	<input type="text" value="23"/>
Barometric (mmHg):	<input type="text" value="760"/>
Humidity (%):	<input type="text" value="50.000"/>

**Be sure not to place the weather station near a heat or cooling source, such as the computer or an air-conditioning duct.**



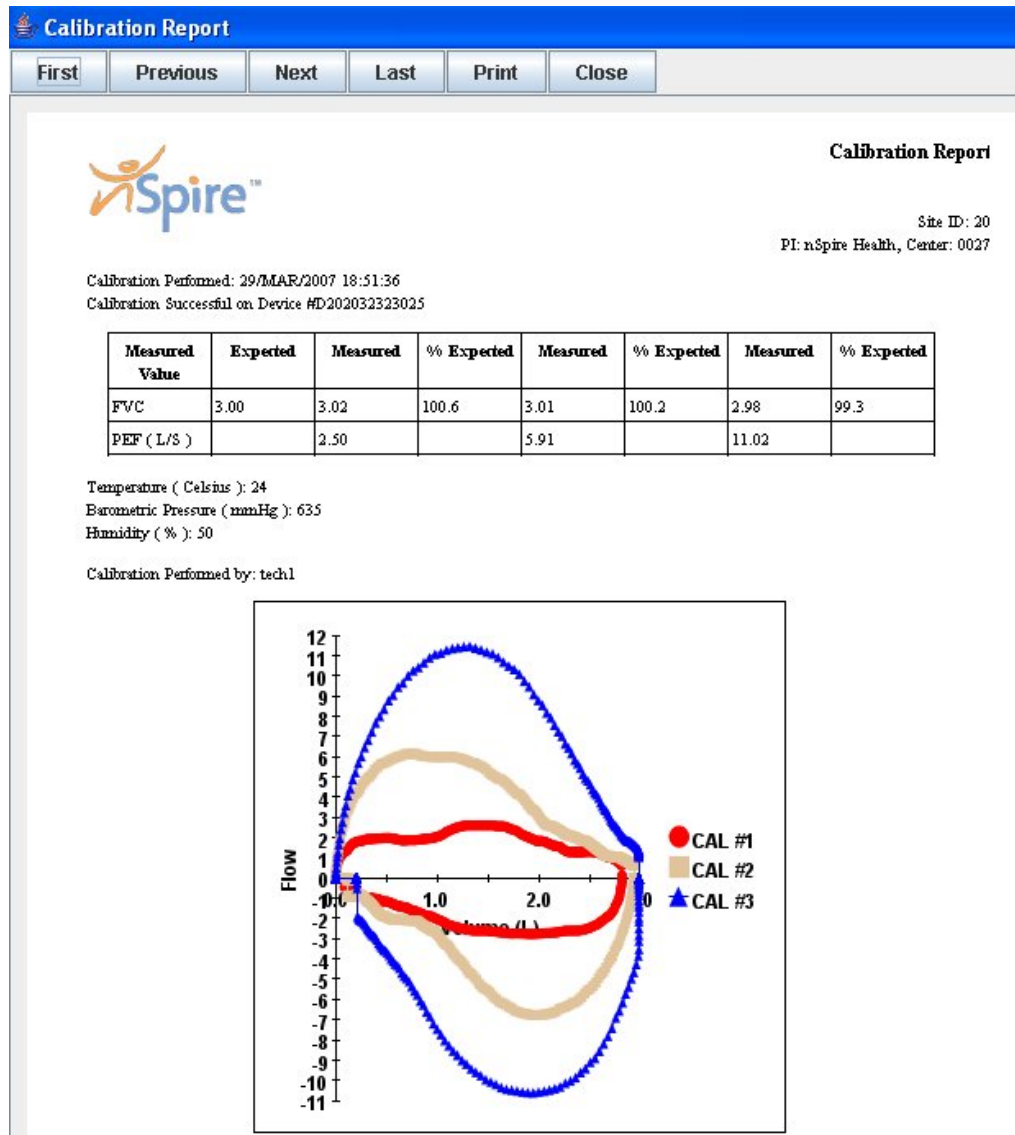


# Printing Calibration Report

INSPIRING RESPIRATORY HEALTH

If the calibration was successful the report will appear.

This the only opportunity to print this report.







# Login, Calibration and Linearity

INSPIRING RESPIRATORY HEALTH

## Demonstration and Practice





# Windows and Study Login

Log On to Windows

 Microsoft Windows<sup>®</sup> xp Professional

Copyright © 1985-2001  
Microsoft Corporation

Microsoft

User name:

Password:

INSPIRING RESPIRATORY HEALTH

Study ID:

Login ID:

Password:



# Subject Testing



# Study Visit Structure

INSPIRING RESPIRATORY HEALTH

Visit Name	Interval	Stage	Notes
Visit 1-Screening	Pre FVC	V1 Pre FVC	FEV1 Inclusion
	Post FVC	V1 Post FVC	Reversibility Check
Visit 2-Rand	Pre FVC	V2 Pre FVC	FEV1 Inclusion
	Post FVC	V2 Post FVC	Reversibility Check Stability Check
Visit 3-Week 1	Pre FVC	V3 Pre FVC	Stability Check
	Post FVC	V3 Post FVC	
Visit 4-Week 2	Pre FVC	V4 Pre FVC	Stability Check
	Post FVC	V4 Post FVC	
Visit 5-Week 4	Pre FVC	V5 Pre FVC	Stability Check
	Post FVC	V5 Post FVC	
Visit 6-Week 8	Pre FVC	V6 Pre FVC	Stability Check
	Post FVC	V6 Post FVC	
Visit 7-Week 12	Pre FVC	V7 Pre FVC	Stability Check
	Post FVC	V7 Post FVC	
Visit 8-Week 14	Pre FVC	V8 Pre FVC	Stability Check
	Post FVC	V8 Post FVC	
Early Withdrawal	Pre FVC	EW Pre FVC	
	Post FVC	EW Post FVC	
Unscheduled Visit	Pre FVC	UNS Pre FVC	
	Post FVC	UNS Post FVC	

## **Check that patient has:**

- Refrained from using SABA within previous 6 hours – NOTE: if subject was not refrained, you will not be able to continue testing. Please contact your monitor regarding rescheduling the visit.
- Has avoided caffeine drinks, alcoholic beverages, large meals and strenuous exercise, per protocol

## **Clearly explain manoeuvre**

Subject should be:

- Seated, upright
- Legs not crossed, feet flat on floor
- Dentures in, if well fitting
- Nose clip on
- Tight seal around mouthpiece

- Immediate, maximal exhalation after maximal inspiration. No hesitation.
- No cough in the first second of exhalation.
- Complete exhalation for at least 6 seconds and a good plateau.
- Maximal effort throughout the entire manoeuvre.
- 3 acceptable efforts, with 2 repeatable :

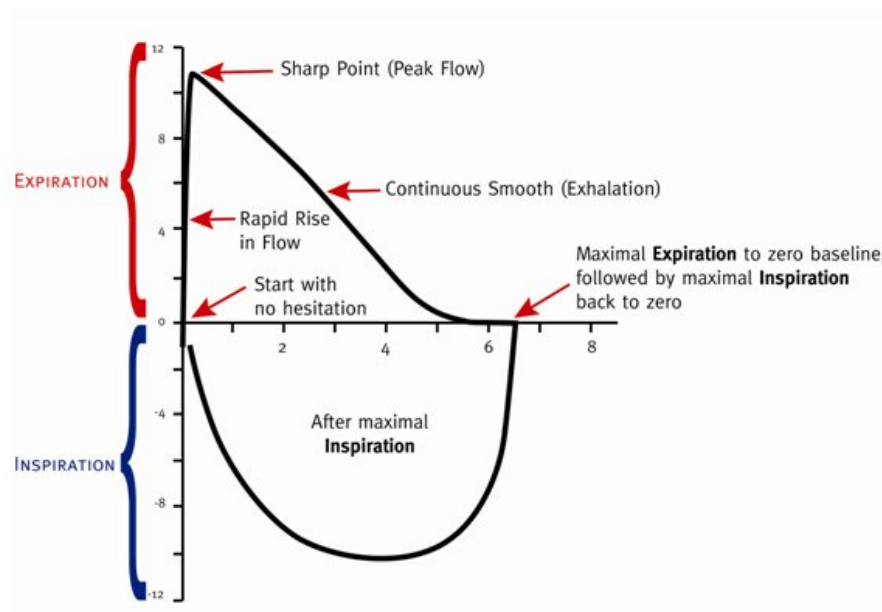
Difference between the largest and second largest FEV1 is  $\leq 150\text{ml}$ .

Difference between the largest and second largest FVC is  $\leq 150\text{ml}$ .

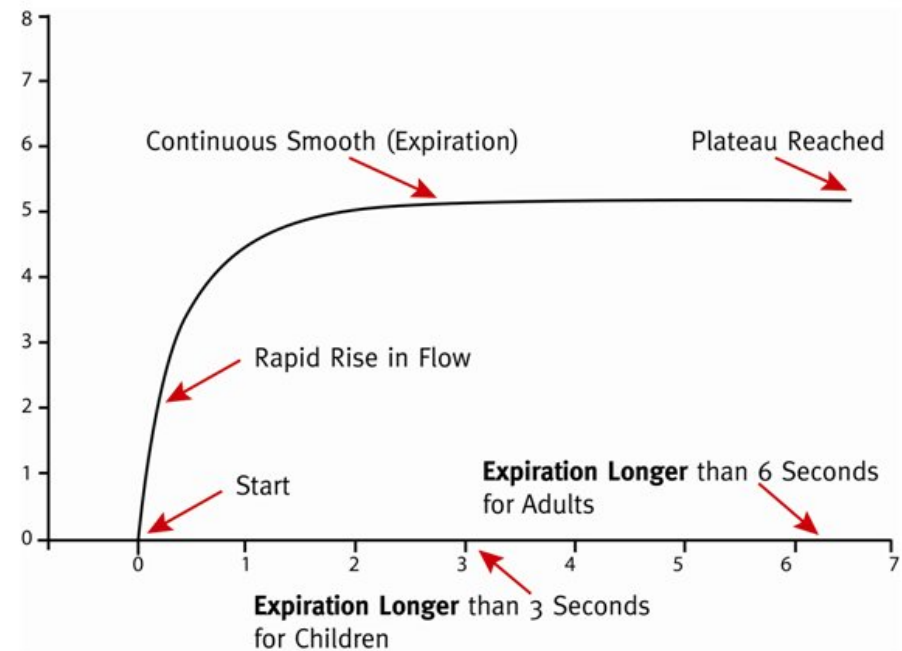
Difference between the largest and second largest PEF is  $\leq 0.67 \text{ L/S}$ .



## Flow Volume Loop



## Volume Time Curve





# FVC Testing Screen

INSPIRING RESPIRATORY HEALTH

Test Effort

Results

Test Effort Screen  
Subject ID: 000499  
Type: Pre/Post  
Screening (1)  
Pre (2)  
Screening Pre (1)  
Completed Efforts: 2

Test Requirements:  
Consistent Efforts: 2  
Required Efforts: 3  
Maximum Efforts: 8

Comm Port: COM1

Volume

Time (sec)

Flow

Volume (L)

Rank	FEV1	FEV1 %Pred	FVC	FVC %Pred	FEV1/FVC	PEFR
2	3.86	102.9	4.80	104.6	0.80	10.90
3	3.84	102.4	4.83	105.2	0.80	10.96
1	3.87	103.2	4.82	105.1	0.80	10.88

Would you like to accept or discard this trial?

RETRY

ACCEPT

DISCARD

EXIT



# FVC Testing Results Tab

INSPIRING RESPIRATORY HEALTH

Test Effort

Results

**Predicted Data Table:**

Reference	Stability%	...	FVC (L)	FEV1 (L)	FEV1/FVC	PEF (L/S)	FEF 25-75...
1.54	-16.9	...	3.34	2.74	0.81	7.54	2.98

**Trial Results Data Table:**

FVC (L)	FVC-Re...	FVC %P...	FEV1 (L)	FEV1-R...	FEV1 %...	Best Test	TR# (Tr...	Trial Time	Discard ...	FEV1/FVC	FEF 2
3.82	<input checked="" type="checkbox"/>	111.0	2.53	<input checked="" type="checkbox"/>	87.5	<input checked="" type="checkbox"/>	1	25/FEB/2009 09:22:58.09	<input type="checkbox"/>	0.66	1.57
3.71	<input checked="" type="checkbox"/>	107.8	2.50	<input checked="" type="checkbox"/>	86.5	<input type="checkbox"/>	2	25/FEB/2009 09:23:39.103	<input type="checkbox"/>	0.67	1.61
3.69	<input checked="" type="checkbox"/>	107.3	2.47	<input checked="" type="checkbox"/>	85.5	<input type="checkbox"/>	6	25/FEB/2009 09:26:10.45	<input type="checkbox"/>	0.67	1.57
3.59	<input type="checkbox"/>	104.4	2.44	<input checked="" type="checkbox"/>	84.4	<input type="checkbox"/>	5	25/FEB/2009 09:25:34.64	<input type="checkbox"/>	0.68	1.58
3.65	<input type="checkbox"/>	106.1	2.41	<input checked="" type="checkbox"/>	83.4	<input type="checkbox"/>	7	25/FEB/2009 09:26:42.37	<input type="checkbox"/>	0.66	1.50
3.51	<input type="checkbox"/>	102.0	2.38	<input checked="" type="checkbox"/>	82.4	<input type="checkbox"/>	3	25/FEB/2009 09:24:14.06	<input type="checkbox"/>	0.68	1.57

Accept Current Test

ABORT TEST

ACCEPT

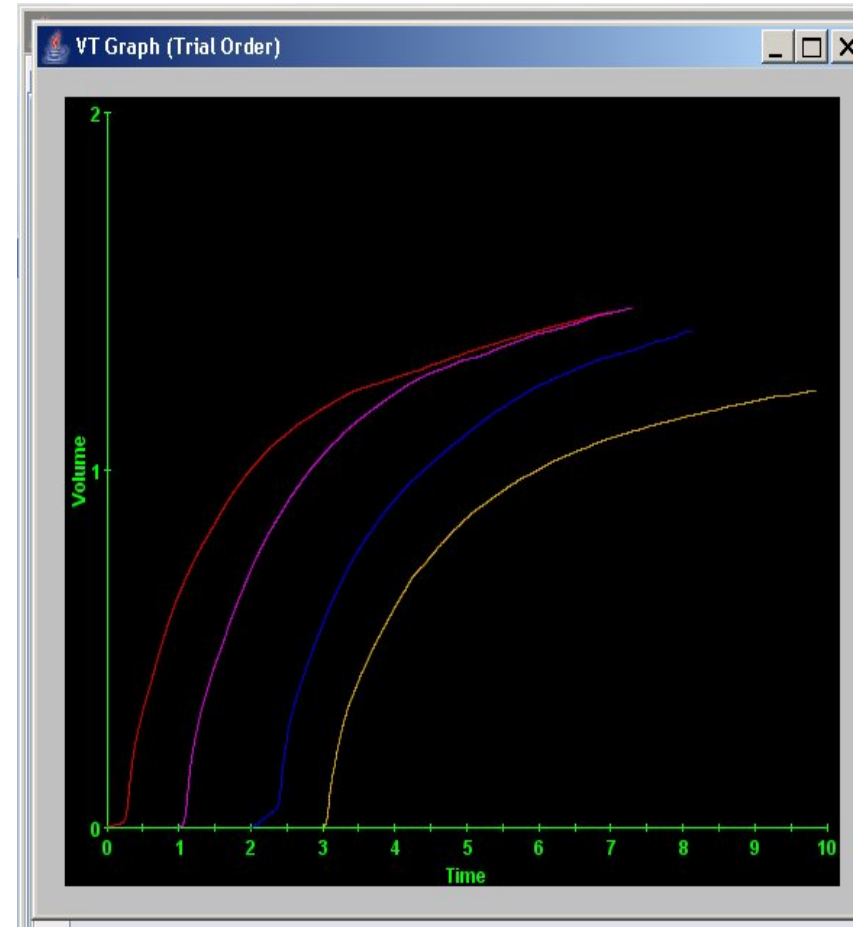
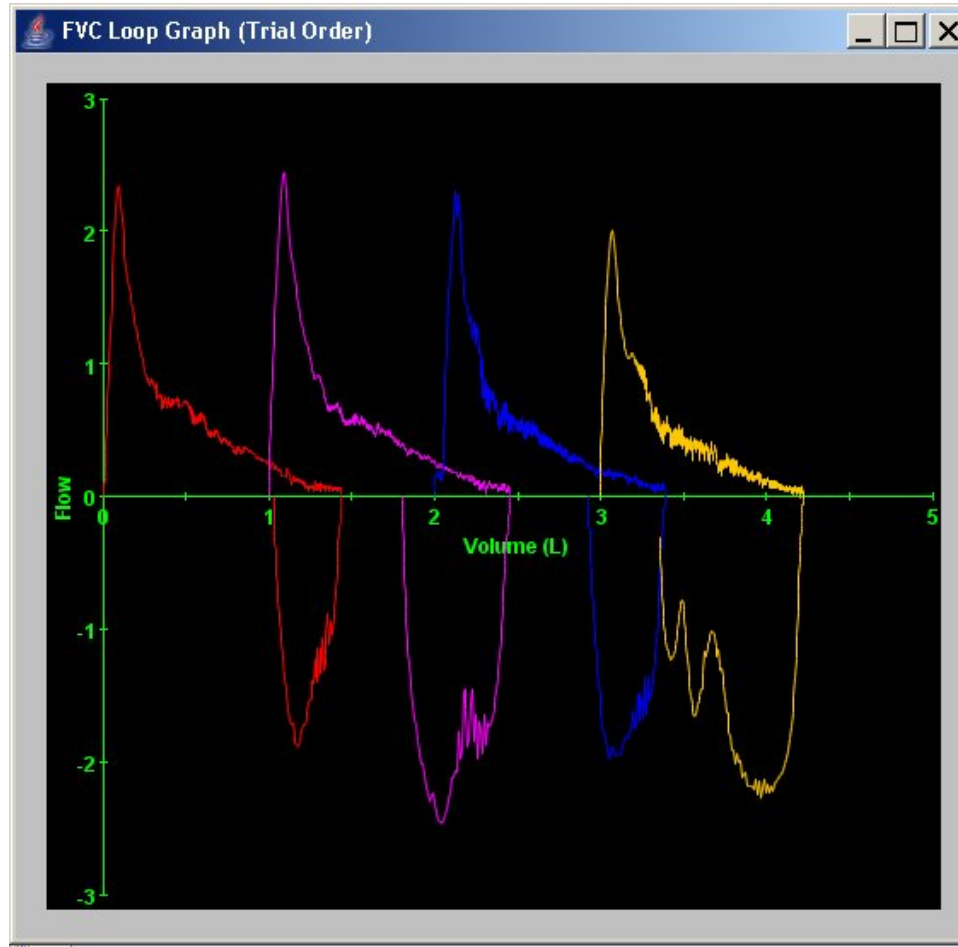
DISCARD

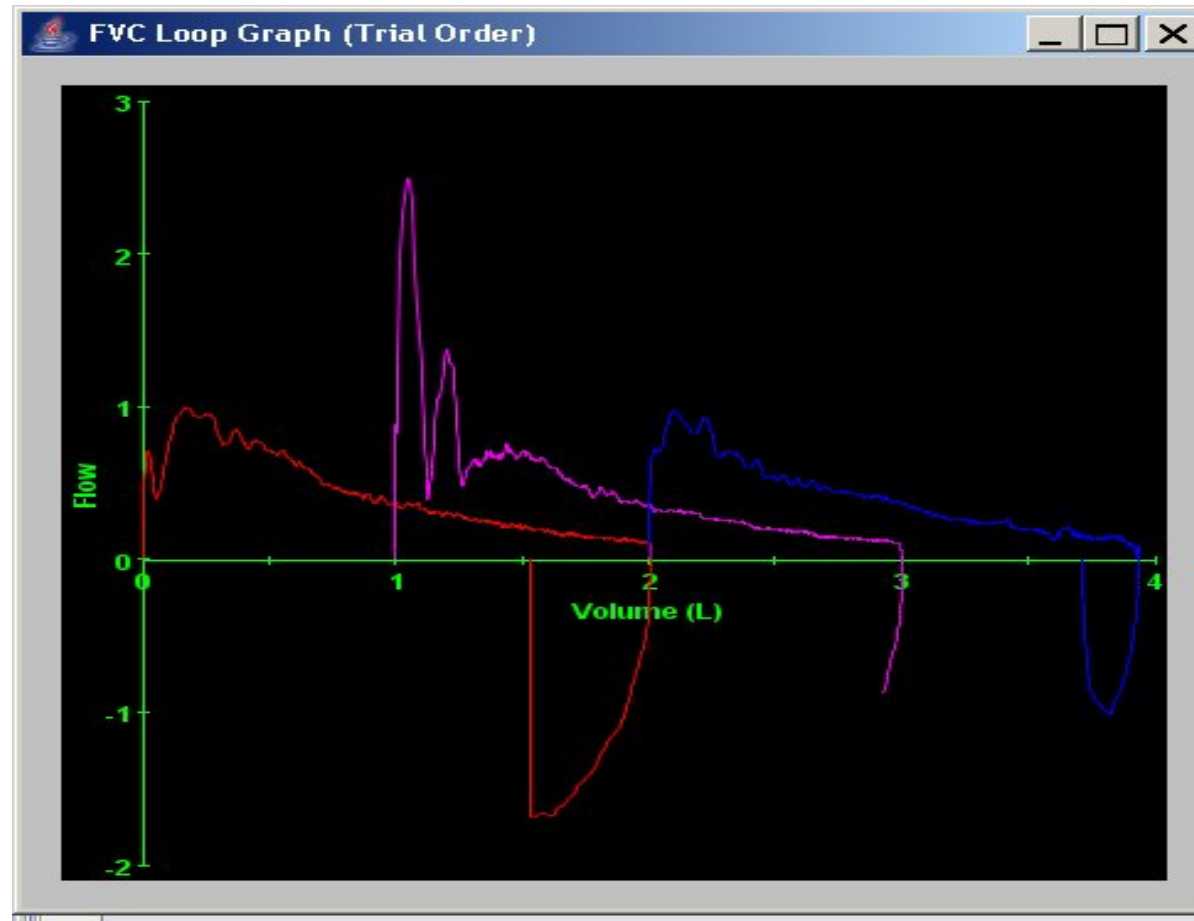
EXIT



# Usable Efforts

INSPIRING RESPIRATORY HEALTH

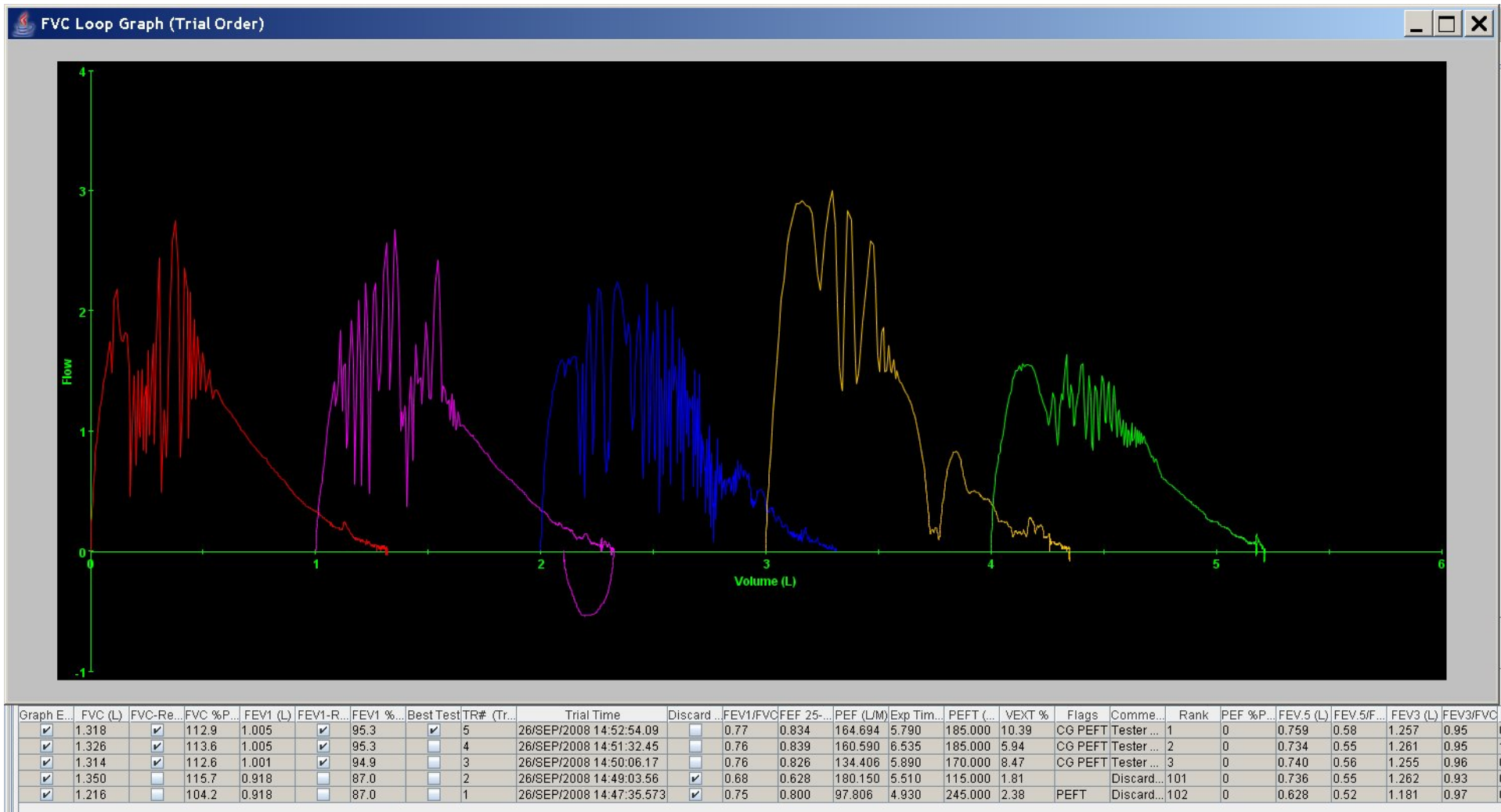






# Unacceptable Efforts

INSPIRING RESPIRATORY HEALTH





**BST - Best Effort**

**CON - Effort Consistent With Best**

**AE- Abrupt End to Effort**

**CG – Cough**

**6 SEC - Expiration Time < 6 seconds**

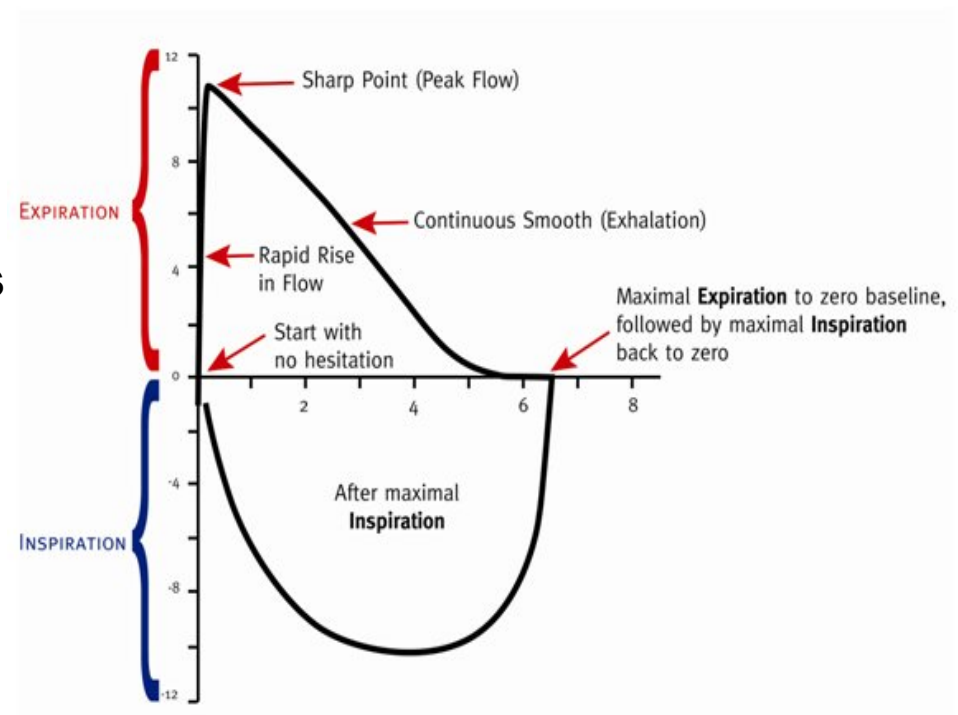
**DIS – Discarded Effort**

**PEFT - PEFT  $\geq 150$  ms**

**BE – Back Extrapolation (VEXT)**

**$\geq 5\%$  or 150ml**

**RB– Rebreathing**





# FVC Testing Messages

INSPIRING RESPIRATORY HEALTH

- **All FVC stages:** Repeatability status
- **Visits 1 & 2 Pre FVC:** FEV1 Inclusion status
  - FEV1 must be  $\leq 85\%$  of Predicted at both
- **Visit 1 OR V2 Post FVC:** Reversibility Inclusion status
  - Post FEV1 increase must be  $\geq 12\%$  AND  $\geq 200$  ml
- **Visits 2 – 8 Pre FVC:** FEV1 and PEF Stability check
  - Warning message will appear if PEF decreases  $> 30\%$  and/or FEV1 decreases  $> 20\%$  from Visit 1 baseline

## Demonstration and Practice





# Printing a Report

INSPIRING RESPIRATORY HEALTH

Subject Entry

FIND

PKO

TEST

Site ID: 24

Initials: MJL

Randomization #: 0001

DOB:(dd/mm/yyyy) 22/SEP/1955

Subject ID: 000001

Position: Sitting

Age: 53

Race: Caucasian

Gender: Female

Weight:(kg) 35.0

Height:(cm) 168.0

Type Test	Visit Name	Visit#	Interval Name	Interval#	QA Status	Stage Name	Stage#	Seq Num	Test
PULMONARY	SCREENING (Visit1)		PRE	1	New	V1-Pre FVC	2	1	29-SEP-11
PULMONARY	SCREENING (Visit1)		BD ADMIN	2	New	BD Admin	1	1	29-SEP-11
PULMONARY	SCREENING (Visit1)		POST	3	New	V1-Post FVC	2	1	29-SEP-11
PULMONARY	RANDOMIZATION 2		PRE	1	New	V2-Pre FVC	2	1	30-SEP-11
PULMONARY	RANDOMIZATION 2		Study Drug Admin	2	New	v2-Study Drug Adm	1	1	30-SEP-11
PULMONARY	RANDOMIZATION 2		POST	3	New	V2-Post FVC	2	1	01-OCT-11

SUBMIT

Clear  
Reset

HOME

- Subject Entry Screen
- List of tests that have been performed
- Click on the row of the desired test set to print
- System will advance to the Quality Assurance screen



# Printing a Report

INSPIRING RESPIRATORY HEALTH

Info History eQuery Test-Set Actions

**Demographics:**  
Subject ID:000011  
Initials: bak Age:61 Sex:F  
Height:(cm)155.0 Weight:(kg)60.0  
nSpire Site: 28 Center number: 0027  
Day 1 (2) MCT (3) Day 1\_0.125 (4)  
Test Date: 25-MAR-2008 11:21:40.000  
Predicted Normals:Crapo 1981/Cherniack PEFR

**Grade:**  
Acceptable

**Status:**  
New

**PRINT**

**GRAPH\_FVC**

**GRAPH\_VT**

**GRAPH\_FT**

**SCORE CARD**

**QA Statement:**  
Auto QA Comments: REVIEW-Quality Error Flags present. REVIEW- Some Variability in PEFR

Reference	Stability%	FVC (L)	FEV1 (L)	FEV1/FVC	PEF (L/S)	FEF 25-75%
1.50	-14.7	2.70	2.17	0.80	5.62	2.26

**Test Details for Stage:**

Graph E...	FVC (L)	FVC %P...	FEV1 (L)	FEV1 %...	Best Test	Consist...	TR# (Tr...	Trial Time	Discard ...	FEV1/FVC	FEF 25-...	PEF (L/S)	Exp Tim...	PEFT (...	VEXT %
<input checked="" type="checkbox"/>	1.96	72.6	1.72	79.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	25/MAR/2008 13:47:55.89	<input type="checkbox"/>	0.88	2.30	4.11	2.91	90.00	3.06
<input checked="" type="checkbox"/>	1.98	73.3	1.72	79.3	<input type="checkbox"/>	<input type="checkbox"/>	2	25/MAR/2008 13:47:27.9...	<input type="checkbox"/>	0.87	2.10	3.81	3.02	90.00	3.03
<input checked="" type="checkbox"/>	1.92	71.1	1.64	75.6	<input type="checkbox"/>	<input type="checkbox"/>	4	25/MAR/2008 13:48:19.0	<input type="checkbox"/>	0.85	2.06	3.95	4.30	90.00	2.60
<input checked="" type="checkbox"/>	1.91	70.7	1.60	73.7	<input type="checkbox"/>	<input type="checkbox"/>	1	25/MAR/2008 13:46:55.6...	<input type="checkbox"/>	0.84	1.69	3.17	3.86	110.00	2.62

**EXIT** **SUBMIT**

Click on the  
PRINT button



# FVC Report

INSPIRING RESPIRATORY HEALTH

## Spirometry Report



nSpire Site ID: 74  
Center: 0027, PI: nSpire Health

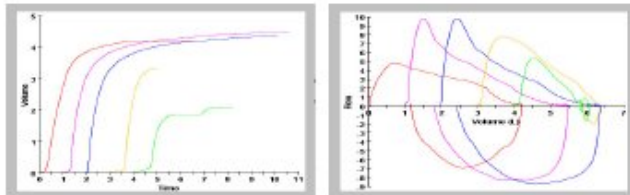
Screening ID: S-00002  
Gender: M  
Position: Sitting  
Visit: Visit 1 Screening (1)  
Randomization #:   
Predicted:  
First Test: 09/SEP/2009 11:59:06  
Report Comments: Subject's Reference Value: 3.49L Reversibility%: -3.58  
Predicted: Subject appears to have NOT MET the inclusion criteria.  
Repeatability Check Reached (FVC & FEV1)

Initials:  
Age: 56  
Height: 178.0  
Interval: Post FVC (4)  
Enrollment Code:  
Best Test: 09/SEP/2009 11:59:06

Race: Non-Black  
Date of Birth: 02/FEB/1953  
Weight: 78.0  
Stage: V1 Post FVC (1)  
Tech: tech1  
Last Test: 09/SEP/2009 12:04:06  
Reversibility L: -0.125

Function	Pred	B-Meas	% Prd	Meas	Meas	Meas	Meas	Meas	Meas	Meas	Meas	Comp
FVC (L)	4.905	4.204	85.71%	4.480	4.375	3.333	2.095					4.480
FEV1(L)	3.751	3.366	89.74%	3.429	3.335	3.249	1.857					3.366
FEV1/FVC (%)	0.76	0.80	105.26 %	0.77	0.76	0.97	0.89					0.75
PER(L/M)	57.1	288	50.44%	589	588	467	318					589
FEF25-75% (L/S)	3.181	3.185	100.13 %	2.836	2.717	5.049	3.081					2.836
VEXT L		0.1578		0.1183	0.0714	0.1463	0.1703					
VEXT (%)		3.75		2.64	1.63	4.39	8.13					
FLAGS		PEFT BST				DIS	BE 6SEC DIS					
EXP TIME		6.440		9.600	8.120	2.030	4.215					

Attempts for this Stage: 5. Ranking order: 1,5,4,2,3. Graphs in Rank Order



eSP Version: 3.1.9 E  
Report Printed: 14/SEP/2009 17:22:31  
Report printed by: mwinda\_sa  
Page 1 of 2

Study Name  
nSpire site ID Number  
Center number  
PI name

Demographics of the patient

Report Comments which can include information about inclusion, repeatability and stability

**Function** = Reported Values

**Pred** = Predicted

**B-Meas** = Best Test

**% Prd** = Percentage of predicted

**Meas** = Other efforts performed

**Comp** = Best Values (Composite)





# FVC Testing Summary

INSPIRING RESPIRATORY HEALTH

- What are the requirements for acceptable testing?
- What does PEFT flag signify?
- What do you do if 1 of 3 efforts performed has a 'flag'?
- At which visits do you check inclusion status?
- How often do you perform calibration?

# Study Specific Communication Process: eQueries



## eQueries or Electronic DCCFs

INSPIRING RESPIRATORY HEALTH

As a part of nSpire's Centralized Quality Control services, each test and effort is individually reviewed to determine the quality of the data and acceptability according to the ATS/ERS 2005 and protocol guidelines.

- eQuery is a feature within the system software that allows communication between the site and nSpire Health.
- eQueries are created for test sets, i.e. Pre FVC, Post FVC
- The eQueries will be uploaded to the site during the routine synchronizations.

**The site must respond to EVERY eQuery until resolution.**



# eQueries or Electronic DCCFs

INSPIRING RESPIRATORY HEALTH

## Items communicated via eQueries are:

- adjustments to spirometry test results
- demographic data discrepancies
- protocol non-compliance
- missing or incomplete visits

## eQueries will be generated, at minimum, for:

- unacceptable test sets
- selection of new best effort
- discarded efforts considered acceptable

## eQuery Resolution

*Sites must respond to every eQuery until resolution.*

If this doesn't occur in a timely manner, nSpire Health will escalate to Actelion.



# eQuery Notification

INSPIRING RESPIRATORY HEALTH



The mailbox indicates there are new eQueries pending your review and response. Click on the **red Mailbox** to open a list of test sets with new eQueries.



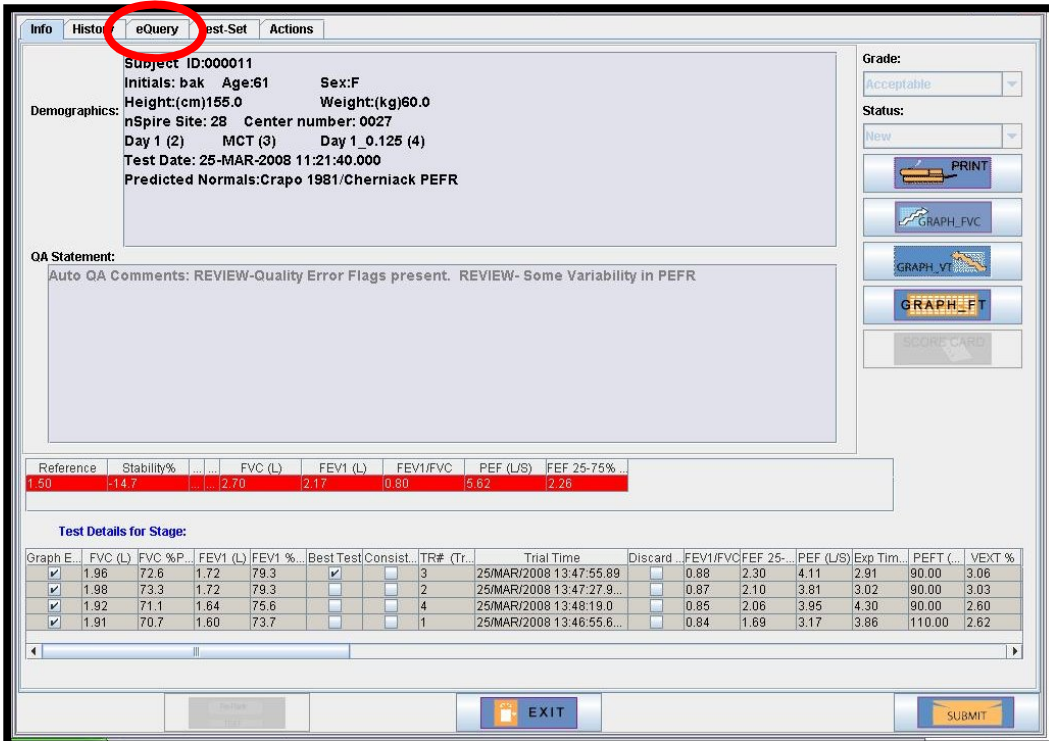
# eQuery To Do List

INSPIRING RESPIRATORY HEALTH

TO DO LIST    Display Selection = PFT In Progress    Number of Records=579														
	Status	Grade	Site	Screening ID:	Visit Name	Visit #	Interval Name	Interval #	Stage Name	Stage #	Visit Date	Test Seq#	Trial Date	State
Row 1	In Progress	Other	271	S-00006	Visit 2 Baseline	2	Pleth Entry	5	V2 Pleth Entry	1	20/SEP/2010 08:21		20/SEP/2010 09:4	QUE-
Row 2	In Progress	Acceptable	271	S-00001	Visit 5	5	Pre FVC	2	V5 Pre FVC	1	16/SEP/2010 09:01		16/SEP/2010 09:1	Accept
Row 3	In Progress	Borderline Accept	271	S-00006	Visit 1 Screening	1	Post FVC	4	V1 Post FVC	1	14/SEP/2010 08:41		14/SEP/2010 09:3	Subje
Row 4	In Progress	Acceptable	271	S-00006	Visit 1 Screening	1	Pre FVC	2	V1 Pre FVC	1	14/SEP/2010 08:41		14/SEP/2010 08:4	NOTE
Row 5	In Progress	Borderline Accept	271	S-00005	Visit 5	5	Post FVC	4	V5 Post FVC	1	09/SEP/2010 08:31		09/SEP/2010 09:3	NOTE
Row 6	In Progress	Borderline Accept	271	S-00005	Visit 4	4	Pre FVC	2	V4 Pre FVC	1	02/SEP/2010 08:11		02/SEP/2010 08:2	Border
Row 7	In Progress	Borderline Accept	271	S-00004	Visit 4	4	Post FVC	4	V4 Post FVC	1	01/SEP/2010 09:01		01/SEP/2010 09:5	Border
Row 8	In Progress	Acceptable	271	S-00002	Visit 2 Baseline	2	Pleth Entry	5	V2 Pleth Entry	1	26/AUG/2010 08:11		26/AUG/2010 09:4	QUE-
Row 9	In Progress	Borderline Accept	271	S-00005	Visit 2 Baseline	2	Pleth Entry	5	V2 Pleth Entry	1	26/AUG/2010 07:21		26/AUG/2010 17:4	QUE-
Row 10	In Progress	Borderline Accept	271	S-00004	Visit 2 Baseline	2	Pleth Entry	5	V2 Pleth Entry	1	25/AUG/2010 08:01		25/AUG/2010 10:2	QUE-
Row 11	In Progress	Borderline Accept	271	S-00002	Visit 1 Screening	1	Pre FVC	2	V1 Pre FVC	1	20/AUG/2010 08:11		20/AUG/2010 08:2	Border
Row 12	In Progress	Borderline Accept	271	S-00005	Visit 1 Screening	1	Pre FVC	2	V1 Pre FVC	1	20/AUG/2010 07:21		20/AUG/2010 07:3	Border
Row 13	In Progress	Borderline Accept	271	S-00001	Visit 1 Screening	1	Pre FVC	2	V1 Pre FVC	1	18/AUG/2010 09:31		18/AUG/2010 09:3	NOTE
Row 14	In Progress	Borderline Accept	271	S-00003	Visit 1 Screening	1	Pre IC	1	V1 Pre IC	1	18/AUG/2010 08:41		18/AUG/2010 08:4	QUE-
Row 15	In Progress	Borderline Accept	271	S-00003	Visit 1 Screening	1	Pre FVC	2	V1 Pre FVC	1	18/AUG/2010 08:41		18/AUG/2010 08:5	Border
Row 16	In Progress	Borderline Accept	271	S-00004	Visit 1 Screening	1	Pre FVC	2	V1 Pre FVC	1	18/AUG/2010 08:01		18/AUG/2010 08:1	Border

**From the To Do list, click on the test file you want to review. Each row represents an individual eQuery file that must be answered.**





**Info** **History** **eQuery** **Test-Set** **Actions**

**Subject ID:** 000011  
**Initials:** bak **Age:** 61 **Sex:** F  
**Height:** (cm) 155.0 **Weight:** (kg) 60.0  
**nSpire Site:** 28 **Center number:** 0027  
**Day 1 (2)** **MCT (3)** **Day 1\_0.125 (4)**  
**Test Date:** 25-MAR-2008 11:21:40.000  
**Predicted Normals:** Crapo 1981/Cherniack PEFR

**QA Statement:**  
 Auto QA Comments: REVIEW-Quality Error Flags present. REVIEW- Some Variability in PEFR

**Grade:** Acceptable  
**Status:** New

**PRINT**  
**GRAPH\_FVC**  
**GRAPH\_VT**  
**GRAPH\_FT**  
**BOOK CARD**

Reference	Stability%	FVC (L)	FEV1 (L)	FEV1/FVC	PEF (L/S)	FEF 25-75%
1.50	-14.7	2.70	2.17	0.80	5.62	2.26

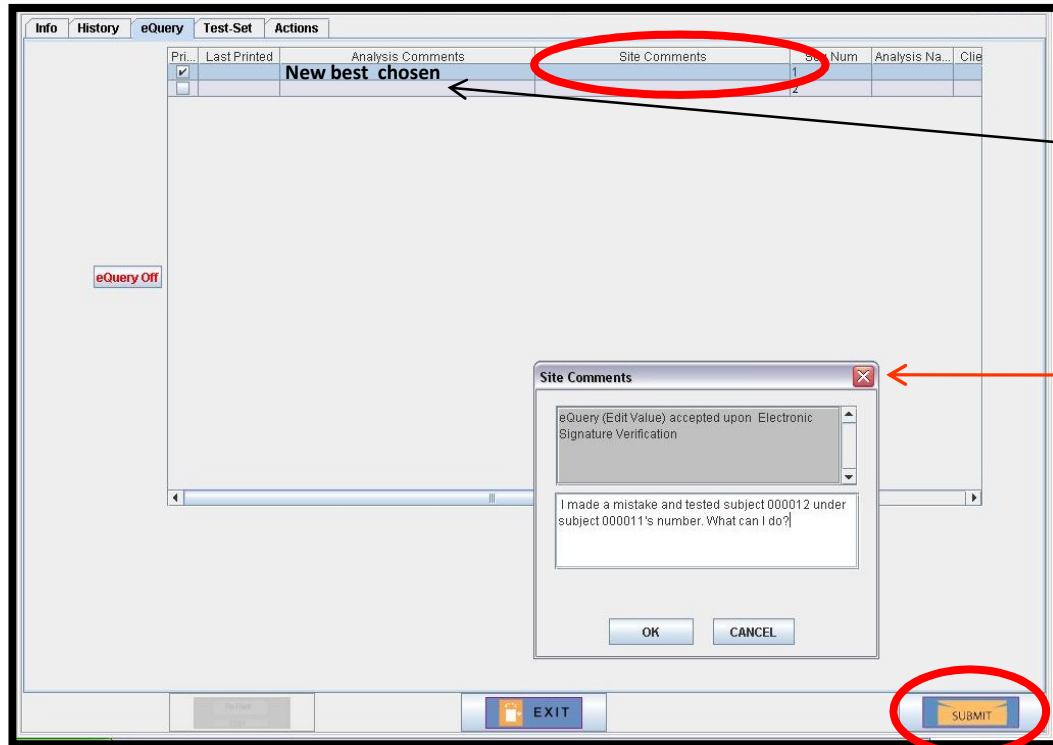
**Test Details for Stage:**

Graph E...	FVC (L)	FVC %P	FEV1 (L)	FEV1 %	Best Test/Consist...	TR# (Tr...	Trial Time	Discard ...	FEV1/FVC	FEF 25-...	PEF (L/S)	Exp Tim...	PEFT (...)	VEXT %
✓	1.96	72.6	1.72	79.3	✓	3	25/MAR/2008 13:47:55.89		0.88	2.30	4.11	2.91	90.00	3.06
✓	1.98	73.3	1.72	79.3		2	25/MAR/2008 13:47:27.9...		0.87	2.10	3.81	3.02	90.00	3.03
✓	1.92	71.1	1.64	75.6		4	25/MAR/2008 13:48:19.0		0.85	2.06	3.95	4.30	90.00	2.60
✓	1.91	70.7	1.60	73.7		1	25/MAR/2008 13:46:55.6...		0.84	1.69	3.17	3.86	110.00	2.62

**EXIT** **SUBMIT**

After selecting the eQuery file the software will advance to the QA review screen for that file, as shown on the left.

Click on the **eQuery Tab** to review the equery.



- To view the eQuery, click on the text in the Analysis Comments field.
- To respond, click into the *Site Comments* field directly to the right of the Analysis Comments.
- The *Site Comments* dialog box appears. Type in your comments and click OK.
- When prompted, enter your password (electronic signature).
- Click on the **Submit** button to **save** your comments.




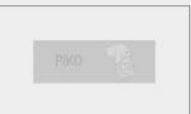
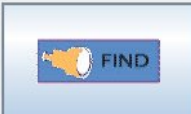
***If you do not press Submit the eQuery will not be saved or transmitted.***



# Creating an eQuery

INSPIRING RESPIRATORY HEALTH

**Subject Entry**



**Site ID:**

**Initials:**

**Randomization #:**

**DOB:(dd/mmm/yyyy)**

**Subject ID:**

**Position:**

**Age:**


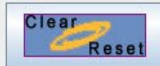

**Race:**

**Gender:**

**Weight:(kg)**

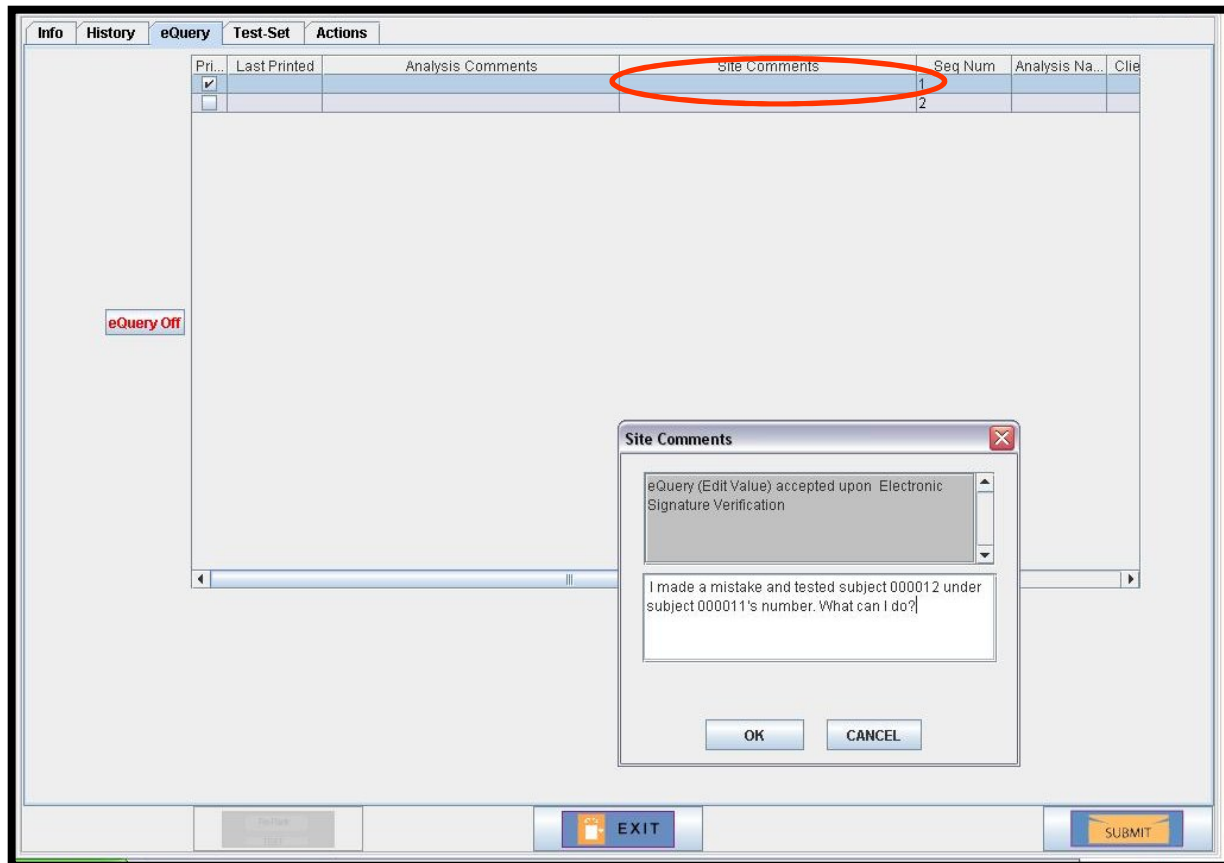
**Height:(cm)**

Type Test	Visit Name	Visit#	Interval Name	Interval#	QA Status	Stage Name	Stage#	Seq Num	Test
PULMONARY	SCREENING (Visit 1)	1	PRE	1	New	V1-Pre FVC	2	1	29-SEP-2008
PULMONARY	SCREENING (Visit 1)	1	BD ADMIN	2	New	BD Admin	1	1	29-SEP-2008
PULMONARY	SCREENING (Visit 1)	1	POST	3	New	V1-Post FVC	2	1	29-SEP-2008
PULMONARY	RANDOMIZATION 2	2	PRE	1	New	V2-Pre FVC	2	1	30-SEP-2008
PULMONARY	RANDOMIZATION 2	2	Study Drug Admin	2	New	v2-Study Drug Admin	1	1	30-SEP-2008
PULMONARY	RANDOMIZATION 2	2	POST	3	New	V2-Post FVC	2	1	01-OCT-2008



- eQueries are created for test sets

- On the “**Subject Entry**” Screen, select the test set you want to use



The screenshot shows the Spire eQuery interface. At the top, there are tabs: Info, History, eQuery, Test-Set, and Actions. Below the tabs is a table with columns: Pri..., Last Printed, Analysis Comments, Site Comments, Seq Num, Analysis Na..., and Client. The 'Site Comments' column is highlighted with a red oval. A dialog box titled 'Site Comments' is open in the center. It contains a text area with the text: 'eQuery (Edit Value) accepted upon Electronic Signature Verification'. Below the text area is a text input field with the text: 'I made a mistake and tested subject 000012 under subject 000011's number. What can I do?'. At the bottom of the dialog box are 'OK' and 'CANCEL' buttons. In the bottom right corner of the main window, there is a 'SUBMIT' button. In the bottom left corner, there is an 'EXIT' button. On the left side of the main window, there is a button labeled 'eQuery Off'.

1. Put the cursor in the Site Comments Field
2. The Site Comments Box will come up. Type in your comments, question, concern, etc.
3. Click “**OK**”
4. Verify your electronic signature
5. Click on the “**Submit**” Button

***NOTE: If you forget to click on the “Submit” Button the query will not be saved or transmitted***



# eQuery Summary

INSPIRING RESPIRATORY HEALTH

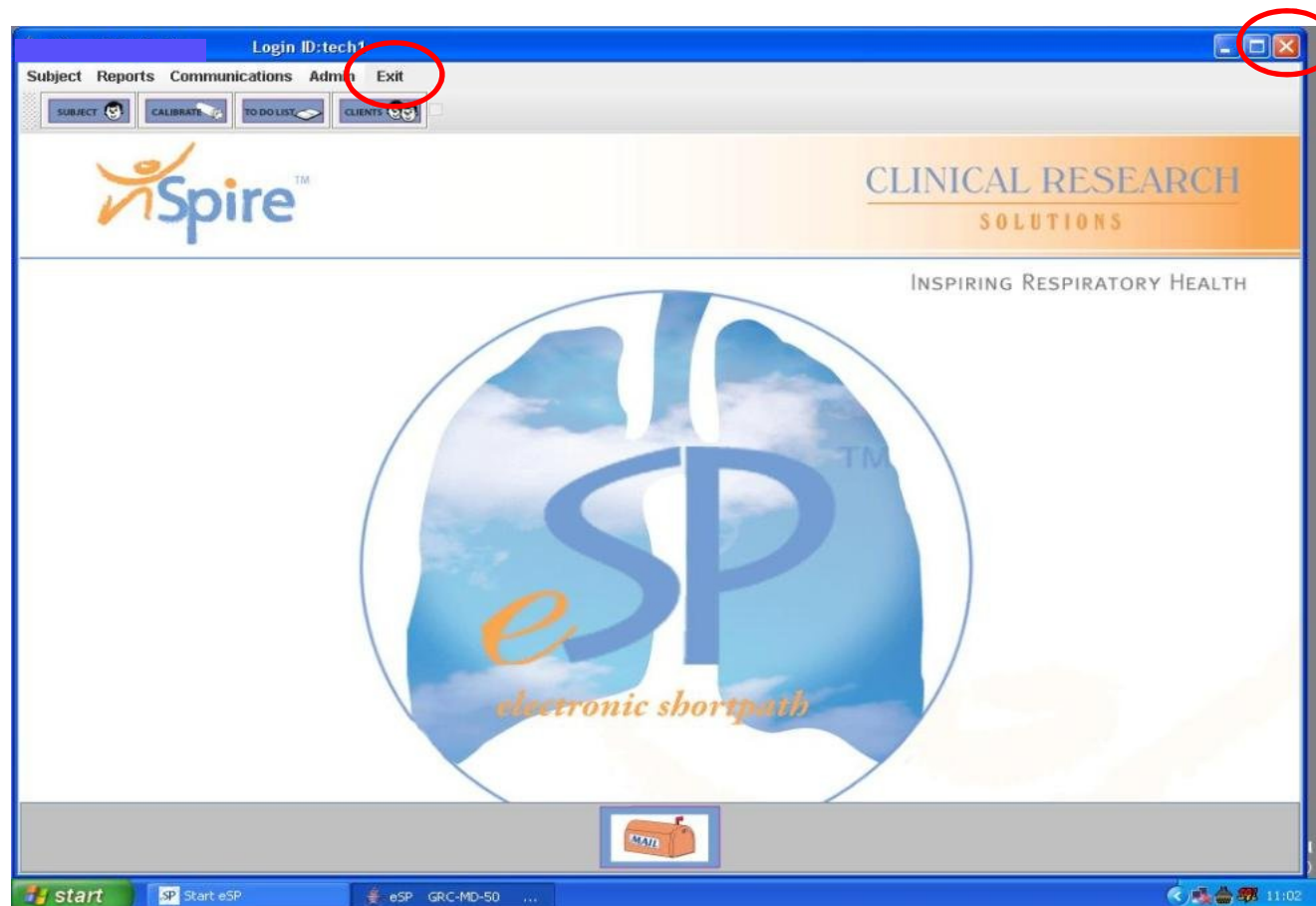
- **Red Mailbox** on Home Screen indicates \_\_\_\_\_?
- What type of issues are communicated?
- How often should you check for eQueries?
- What must you do to save your equery response and send it to nSpire?



# Exiting eSP

INSPIRING RESPIRATORY HEALTH

- Click on “**Exit**” when “logging off” but not closing the eSP application
- Click on the “**X**” box in the upper right hand corner of the window when you are closing out of the eSP application





# Customer Support

INSPIRING RESPIRATORY HEALTH

We provide 24 hour technical support via our Help Desk with toll free number provided for your country

Contact us with:

- Equipment Issues
- Software Questions or Issues
- Spirometry Related Protocol Questions
- Problems with Synchronization
- Supply orders

Please **leave a message** if an agent does not pickup immediately.  
Include your name, site number, study, contact information and brief explanation of the issue.

An e-mail alert containing your message will be sent to all Helpdesk agents letting them know a call was received. Your call will be returned, if requested.



1. How are demographic changes made?  
**Make all demographic changes on the subject screen. You will be required to note a reason for the change.**
2. What if the site administrator leaves?  
**Ask them to create an account for the new administrator before they leave, OR**  
**Contact nSpire technical support to reset the PI Admin account (First six letters of PI's last name.)**
3. What if a new technician is hired?  
**Follow the certification process in users guide.**
4. After Synchronization, must the system stay connected during testing?  
**No, the system can be disconnected during testing.**

5. Must calibrations be done every day?

**Yes, as in this study you cannot predict when a subject will be available for testing and calibration must be performed prior to testing.**

6. Can the laptop be left on overnight?

**No. Please shutdown at the end of the day.**

7. How are passwords reset?

**Your site administrator can reset your password. nSpire's Help Desk can also reset the password.**

8. Can I move the laptop without shutting it off?

**Yes, if you don't close the lid. Closing the lid, or leaving it idle for a long time, puts it into hibernation mode, and you will lose the connection to the Koko handle.**

# Questions?

## Technician enablement process follows